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758 A1

(54) Title: NUTRITIONAL COMPOSITION, METHODS OF PRODUCING SAID COMPOSITION AND METHODS OF USING SAID COMPOSITION

(57) Abstract: Nutritional compositions comprising aloe vera, hydrolyzed collagen, garcinia cambogia, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids are disclosed. Nutritional compositions comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids are also disclosed. Methods for preparing and using these compositions are additionally provided.

NUTRITIONAL COMPOSITION, METHODS OF PRODUCING SAID COMPOSITION AND METHODS OF USING SAID COMPOSITION

This application claims the benefit of U.S. Provisional Application No. 60/171267, filed December 16, 1999.

FIELD OF THE INVENTION

The present invention provides nutritional compositions comprising aloe vera, hydrolyzed collagen, garcinia cambogia, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids. The instant invention also provides nutritional compositions comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids. The invention additionally contemplates methods for preparing these compositions and methods of using the compositions.

BACKGROUND OF THE INVENTION

It has now been discovered that a nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids effectively assists in the reduction of body fat, enhancement of nutrient absorption, and formation and protection of lean muscle tissue. The composition may also possess antioxidant properties.

OBJECTS AND SUMMARY OF THE INVENTION

The present invention provides a nutritional composition comprising aloe vera, collagen, preferably hydrolyzed collagen, garcinia cambogia, chromium polynicotinate (commercially available as ChromeMate*), chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids. The instant invention also provides a nutritional composition comprising aloe vera, collagen, preferably hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids. The composition of the instant invention helps reduce body fat in humans and enhances the human body's use and absorption of nutrients. The composition of the present invention is also useful in promoting the formation and protection of lean muscle tissue in humans. The composition of the present invention may also possess antioxidant properties. The composition may possess additional beneficial properties. The composition of the instant invention can be provided in a variety of forms. Thus, beverages, foods, dietary supplements, and nutraceutical products containing the nutritional composition of the instant invention are included in the scope of the invention.

The present invention further provides a process for producing the compositions of the invention. This process includes, but is not limited to, certain heating, homogenization, and cooling steps.

The present invention additionally provides a process for maintaining the components of the composition in solution. Such process includes, but is not limited to, the addition of glycerin and/or natural ingredients to the composition.

DETAILED DESCRIPTION OF THE INVENTION

The present invention provides a nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids. The instantly claimed invention further provides a nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, chromium polynicotinate, chromium picolinate, chromium cruciferate, conjugated linoleic acid, fiber and natural amino acids. The composition can exist in many forms, including dry, powder or aqueous forms. The aloe vera of the present invention can exist in many forms, including concentrated, dry or aqueous forms. Aloe vera contains over 200 nutrients that benefit the immune system and digestive tract. Where the composition of the instant invention is in dry form, aloe vera is present in the composition in concentrated, dry form in an amount of about 0.06 - 0.25% by weight, preferably about 0.065% - 0.2%, more preferably about 0.07% -0.15%, yet more preferably about 0.075 - 0.1%, still more preferably about 0.075%. Where the composition is in a liquid or aqueous form, concentrated, dry aloe vera is reconstituted with water to arrive at a final 200:1 ratio. Where the composition is in a liquid or aqueous form, aloe vera is present in the composition in an amount of up to about 50% by weight, preferably about 13 - 40%, more preferably about 14 - 30%, yet more preferably about 15 -20%, still more preferably about 15%.

Collagen is a protein which can be found in skin, bones, and lean muscle tissue.

Collagen assists the body in building lean muscle tissue. Preferably, the collagen utilized in the nutritional composition of the instant invention is in a hydrolyzed form. The collagen, preferably in hydrolyzed form, of the nutritional composition of the instant invention is

present in an amount of up to about 30% by weight, preferably about 11% - 25%, more preferably about 11.5% - 20%, yet more preferably about 12% - 15%, still more preferably about 12.5%.

The garcinia cambogia, fenugreek and coleus forskohli utilized in the nutritional composition of the instant invention comprise herbal extracts of garcinia cambogia, fenugreek and coleus forskohli, respectively. Since garcinia cambogia as well as fenugreek and coleus forskohli are not readily soluble in water, these components are preferably present as liquid tea extracts. Such teas are prepared by placing garcinia cambogia, fenugreek and/or coleus forskohli in boiling water for a time sufficient to produce a concentrated tea extract. Where the instantly claimed compositions are in liquid or aqueous form, garcinia cambogia tea, fenugreek tea and coleus forskohli tea are each present in an amount of about 0.005 - 5% by weight, preferably about 0.5%.

The chromium component of the instantly claimed nutritional composition comprises chromium picolinate, chromium polynicotinate, chromium cruciferate, or mixtures thereof. The term "chromium mixture" as used herein refers to a mixture of chromium picolinate, chromium polynicotinate and chromium cruciferate. The chromium utilized in the composition of the present invention preferably comprises a chromium mixture. The chromium mixture is present in an amount of about 0.00005% - 0.0003 by weight, preferably about 0.0001%. The chromium polynicotinate utilized in the composition of the present invention is commercially available as ChromeMate.

The conjugated linoleic acid of the nutritional composition of the instant invention is present in an amount of about 0.000005% - 0.0003% by weight, preferably about 0.00001%.

The natural amino acids of the instant invention comprise L-lysine, preferably in an

amount of about 0.005 - 5% by weight, preferably about 0.2393%, more preferably about 0.1000%; L-ornithine, preferably in an amount of about 0.005 - 5% by weight, preferably about 0.2019%, more preferably about 0.0750%; L-arginine, preferably in an amount of about 0.005 - 5% by weight, preferably about 0.2019%, more preferably about 0.0750%; L-carnitine, preferably in an amount of about 0.005 - 5% by weight, preferably about 0.2393%, more preferably about 0.0750%; trimethylglycine, preferably in an amount of about 0.005 - 5% by weight, preferably about 0.1835%, more preferably about 0.0750%; and L-glycine, preferably in an amount of about 0.005 - 5%, preferably about 0.1500%.

The fiber of the nutritional composition of the instant invention is present in an amount of about 0.8 - 18% by weight, preferably about 7.409% by weight. Preferably, natural chicory extract, which is a soluble dietary fiber, is utilized.

The nutritional composition of the instant invention is useful for reducing human body fat, promoting the formation and protection of human lean muscle tissue, and enhancing the human body's use and absorption of nutrients. Reduction of body fat can be measured by methods known in the art, including measuring weight loss. Formation and protection of human lean muscle tissue as well as enhancement of use and absorption of nutrients can be evaluated and measured by appropriate methods known in the art. The composition of the present invention is also useful as an antioxidant. The composition may also possess additional beneficial properties including aiding in the healing and/or repair of human body tissue, treatment of various human ailments and/or prevention or amelioration of the ill effects of aging on the human body. The nutritional composition can be provided in a variety of forms. Accordingly, beverages, foods, dietary supplements, and nutraceutical products containing the nutritional composition of the instant invention may be produced. Preferably,

the nutritional composition of the instant invention is utilized in dietary supplement beverages. Where the nutritional composition of the instant invention is employed in a dietary supplement beverage, additional ingredients such as the herbal extract stevia can be added as well as natural flavors such as strawberry and kiwi. Additionally, preservatives such as sodium benzoate may be added to increase the longevity of the dietary supplement beverage.

Where the nutritional composition of the present invention is utilized in a dietary supplement beverage, one tablespoon of such beverage along with a glass of water is preferably ingested at nighttime prior to sleeping. While the composition can be consumed anytime, it is preferred to be consumed about 2 - 3 hours after last eating, and preferably about 3 hours after eating. Moreover, ingesting the nutritional composition of the instant invention immediately prior to sleeping allows for optimal healing and repair of the body. Preferably, no food or drinks, except for water, should be ingested for a minimum of three hours prior to ingesting the beverage. Preferably, the dietary supplement beverage should be consumed every day. The dietary supplement beverage can also be ingested more than once a day and at times other than nighttime.

The instant invention further provides methods for maintaining the components of the nutritional composition of the present invention in solution. Such methods include, but are not limited to the addition of glycerin and/or natural ingredients. Such methods comprise adding to the composition glycerin in an amount of about 2 - 5 % by weight, preferably about 2.5%, and/or natural ingredients in amounts effective to maintain the components of the composition of the instant invention in solution.

A dietary supplement beverage comprising the nutritional composition of the instant

invention can be produced by combining glycerin, collagen, preferably hydrolyzed in form, conjugated linoleic acid, xanthan gum, aloe gel powder, L-lysine, L-ornithine, L-arginine, L-carnitine, trimethylglycine, L-glycine, stevia, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, citric acid, sodium benzoate, potassium sorbate, soluble dietary fiber, natural kiwi and strawberry flavor, and purified water in amounts in accordance with the invention.

The instant invention additionally relates to processes for producing dietary supplement beverages comprising the nutritional composition of the present invention. Such processes include, but are not limited to heating and homogenization of the collagen and conjugated linoleic acid prior to addition of the collagen and conjugated linoleic acid to the dietary supplement beverage. Such processes comprise, prior to addition of the glycerin and collagen to the dietary supplement beverage, heating the glycerin and collagen to about 70 -80°C, preferably about 75°C; followed by homogenization of the glycerin and collagen for about 20 - 40 minutes, preferably about 30 minutes; followed by addition of the collagen and glycerin to the nutritional composition of the dietary supplement beverage described herein above. The processes further comprise, prior to addition of the purified water, conjugated linoleic acid, and xanthan gum to the dietary supplement beverage formulation, heating said purified water, conjugated linoleic acid, and xanthan gum to about 60 - 70°C, preferably about 65°C; followed by homogenization of the purified water, conjugated linoleic acid, and xanthan gum for about 40 - 50 minutes, preferably about 45 minutes; followed by addition of the purified water, conjugated linoleic acid, and xanthan gum to the nutritional composition of the dietary supplement beverage described herein above.

What Is Claimed Is:

 A nutritional composition comprising aloe vera, collagen, garcinia cambogia, chromium polynicotinate, conjugated linoleic acid, fiber and natural amino acids in amounts
 effective to help reduce body fat in humans.

- 2. A nutritional composition comprising aloe vera, collagen, garcinia cambogia, chromium polynicotinate, conjugated linoleic acid, fiber and natural amino acids in amounts
 effective to help enhance nutrient absorption in humans.
- 3. A nutritional composition comprising aloe vera, collagen, garcinia cambogia, chromium polynicotinate, conjugated linoleic acid, fiber and natural amino acids in amounts effective to help promote the formation and protection of lean muscle tissue in humans.
- 4. A nutritional composition comprising aloe vera, collagen, garcinia cambogia, chromium polynicotinate, conjugated linoleic acid, fiber and natural amino acids in amounts effective to possess antioxidant properties.
- 5. A nutritional composition comprising aloe vera, collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, fiber and natural amino acids in amounts effective to help reduce body fat in humans.
- 6. A nutritional composition comprising aloe vera, collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, fiber and natural amino acids in amounts effective to help enhance nutrient absorption in humans.

7. A nutritional composition comprising aloe vera, collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, fiber and natural amino acids in amounts effective to help promote the formation and protection of lean muscle tissue in humans.

- 8. A nutritional composition comprising aloe vera, collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, fiber and natural acids in amounts effective to possess antioxidant properties.
- 9. A nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, soluble dietary fiber, L-lysine, L-ornithine, L-arginine, L-carnitine, L-glycine and trimethylglycine in amounts effective to help reduce body fat in humans.
- 10. A nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, soluble dietary fiber, L-lysine, L-ornithine, L-arginine, L-carnitine, L-glycine and trimethylglycine in amounts effective to enhance nutrient absorption in humans.
- 11. A nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated linoleic acid, soluble dietary fiber, L-lysine, L-ornithine, L-arginine, L-carnitine, L-glycine and trimethylglycine in amounts effective to help promote the formation and protection of lean muscle tissue in humans.
- 12. A nutritional composition comprising aloe vera, hydrolyzed collagen, garcinia cambogia tea, fenugreek tea, coleus forskohli tea, a chromium mixture, conjugated

linoleic acid, soluble fiber, L-lysine, L-ornithine, L-arginine, L-carnitine, L-glycine and trimethylglycine in amounts effective to possess antioxidant properties.

- 13. The nutritional composition of any of claims 1 12 wherein said aloe vera is present in an amount of about 0.06 0.25% by weight where said composition is in dry form, and up to about 50% by weight where said composition is in liquid or aqueous form.
- 14. The nutritional composition of any of claims 1 12 wherein said aloe vera is present in an amount of about 0.075% by weight where said composition is in dry form, and about 15% by weight where said composition is in liquid or aqueous form.
- 15. The nutritional composition of any of claims 1 12 wherein said collagen or hydrolyzed collagen is present in an amount of up to about 30% by weight.
- 16. The nutritional composition of any of claims 1 12 wherein said collagen or hydrolyzed collagen is present in an amount of about 12.5% by weight.
- 17. The nutritional composition of any of claims 5 12 wherein said garcinia cambogia tea is present in an amount of about 0.005 to 5% by weight.
- 18. The nutritional composition of any of claims 5 12 wherein said garcinia cambogia tea is present in an amount of about 0.5% by weight.
- 19. The nutritional composition of any of claims 5 12 wherein said fenugreek tea is present in an amount of about 0.005 to 5% by weight.
- 20. The nutritional composition of any of claims 5 12 wherein said fenugreek tea is present in an amount of about 0.5% by weight.
- 21. The nutritional composition of any of claims 5 12 wherein said coleus forskohli tea is present in an amount of about 0.005 to 5% by weight.
- 22. The nutritional composition of any of claims 5 12 wherein said coleus forskohli tea

- is present in an amount of about 0.5% by weight.
- 23. The nutritional composition of any of claims 5 12 wherein said chromium mixture is present in an amount of about 0.00005 0.0003% by weight.
- 24. The nutritional composition of any of claims 5 12 wherein said chromium mixture is present in an amount of about 0.0001% by weight.
- 25. The nutritional composition of any of claims 1 12 wherein said conjugated linoleic acid is present in an amount of about 0.000005 0.0003% by weight.
- 26. The nutritional composition of any of claims 1 12 wherein said conjugated linoleic acid is present in an amount of about 0.00001% by weight.
- 27. The nutritional composition of any of claims 9 12 wherein said L-lysine is present in an amount of about 0.005 5% by weight.
- 28. The nutritional composition of any of claims 9 12 wherein said L-lysine is present in an amount of about 0.1000% by weight.
- 29. The nutritional composition of any of claims 9 12 wherein said L-ornithine is present in an amount of about 0.005 5% by weight.
- 30. The nutritional composition of any of claims 9 12 wherein said L-ornithine is present in an amount of about 0.0750% by weight.
- The nutritional composition of any of claims 9 12 wherein said L-arginine is present in an amount of about 0.005 5% by weight.
- 32. The nutritional composition of any of claims 9 12 wherein said L-arginine is present in an amount of about 0.0750% by weight.
- 33. The nutritional composition of any of claims 9 12 wherein said L-carnitine is present in an amount of about 0.005 5% by weight.

34. The nutritional composition of any of claims 9 - 12 wherein said L-carnitine is present in an amount of about 0.0750% by weight.

- 35. The nutritional composition of any of claims 9 12 wherein said L-glycine is present in an amount of about 0.005 5% by weight.
- 36. The nutritional composition of any of claims 9 12 wherein said L-glycine is present in an amount of about 0.1500% by weight.
- 37. The nutritional composition of any of claims 9 12 wherein said trimethylglycine is present in an amount of about 0.005 5% by weight.
- 38. The nutritional composition of any of claims 9 12 wherein said trimethylglycine is present in an amount of about 0.0750% by weight.
- 39. The nutritional composition of any of claims 1 12 wherein said fiber is present in an amount of about 0.8 18% by weight.
- 40. The nutritional composition of any of claims 1 12 wherein said fiber is present in an amount of about 7.409% by weight.
- 41. A dietary supplement beverage comprising the nutritional composition of any one of claims 1 12.
- 42. A nutritional composition comprising:
 - (a) aloe vera in an amount of about 0.075% by weight where said composition is in dry form, and about 15% by weight where said composition is in liquid form;
 - (b) collagen, preferably hydrolyzed, in an amount of about 12.5% by weight;
 - (c) garcinia cambogia tea in an amount of about 0.5% by weight;
 - (d) fenugreek tea in an amount of about 0.5% by weight;
 - (e) coleus forskohli tea in an amount of about 0.5% by weight;

- (f) a chromium mixture in an amount of about 0.0001% by weight;
- (g) conjugated linoleic acid is present in an amount of about 0.00001% by weight;
- (h) L-lysine in an amount of about 0.1000% by weight;
- (i) L-ornithine in an amount of about 0.0750% by weight;
- (i) L-arginine in an amount of about 0.0750% by weight;
- (k) L-carnitine in an amount of about 0.0750% by weight;
- (1) L-glycine in an amount of about 0.1500% by weight;
- (m) trimethylglycine in an amount of about 0.0750% by weight; and
- (n) soluble dietary fiber in an amount of about 7.409% by weight.
- 43. The nutritional composition of claim 42 further comprising:
 - (o) glycerin in an amount of about 2.5 5% by weight, preferably about 2.5%,
- 44. A dietary supplement beverage comprising the nutritional composition of claim 42 or 43.
- 45. A method for producing a dietary supplement beverage comprising the nutritional composition of claim 43 comprising, as a pre-treatment step:
 - (a) heating said glycerin and collagen to about 70 80°C, preferably about 75°C,
 - (b) homogenization for about 25 35 minutes, preferably about 30 minutes, and
 - (c) adding said glycerin and collagen to said nutritional composition.
- 46. The method of claim 45 further comprising, as a pre-treatment step:
 - (d) heating said purified water, conjugated linoleic acid, and xanthan gum to about 60
 70°C, preferably about 65°C;
 - (e) homogenization for about 40 50 minutes, preferably about 45 minutes; and

(f) adding said water, conjugated linoleic acid, and xanthan gum to said nutritional composition.

- 47. A method for maintaining or increasing the solubility of the nutritional composition of claims 42 or 43 in solution by adding glycerin and/or natural ingredients.
- 48. The method of claim 47 wherein said glycerin is present in an amount of about 2% to 5% by weight, preferably about 2.5%.
- 49. A method for reducing the body fat in humans comprising administering the dietary supplement beverage of claim 44 in an amount effective to reduce body fat.
- A method for enhancing nutrient absorption in humans comprising administering the dietary supplement beverage of claim 44 in an amount effective to enhance nutrient absorption.
- A method for promoting the formation and protection of lean muscle tissue in humans comprising administering the dietary supplement beverage of claim 44 in an amount effective to promote the formation and protection of lean muscle tissue.
- 52. The method of claim 49 where said beverage is administered about three hours after eating.
- 53. The method of claim 50 where said beverage is administered about three hours after eating.
- 54. The method of claim 51 where said beverage is administered about three hours after eating.
- 55. The method of claim 52 where the method is repeated each day for a period effective to reduce body fat.
- 56. The method of claim 53 where the method is repeated each day for a period effective

- to enhance nutrient absorption.
- 57. The method of claim 54 where the method is repeated each day for a period effective to promote the formation and protection of lean muscle tissue.

INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/34351

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) :A61K 35/78, 38/00, 31/555, 31/20, 31/195 US CL :424/195.1; 514/2, 188, 560, 561			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 424/195.1; 514/2, 188, 560, 561			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
Electronic data base consumed during the international search (name of data base and, whose practication, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
Α	US 4,216,234 A (RAWLINGS et al.)	05 August 1980 (05.08.80),	1-12 and 42-57
	see the entire document.		
	TIS 5 612 020 A (DOLICADDELL)	Lat al.) 18 March 1007	1-12 and 42-57
Α	US 5,612,039 A (POLICAPPELL) (18.05.97), see the entire document.	i et al.) 18 Maich 1997	1-12 and 42-37
	(10.03.97), see the chine document.		
Α	US 5,976,580 A (IVEY et al.) 02 November 1999 (02.11.99), see 1-12 and 42-57		1-12 and 42-57
	the entire document.		
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand			
	cument defining the general state of the art which is not considered be of particular relevance	the principle or theory underlying the	
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special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other		considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
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the priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search report			•
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INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/34351

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. X Claims Nos.: 13-41 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			